

INTERSECTION OPERATION

The intersection of MD 157 (Peninsula Expressway) at Ramp C will operate in a NEMA three-phase semi-traffic-actuated mode with southbound and northbound MD 157 operating concurrently. Ramp C will operate alone.

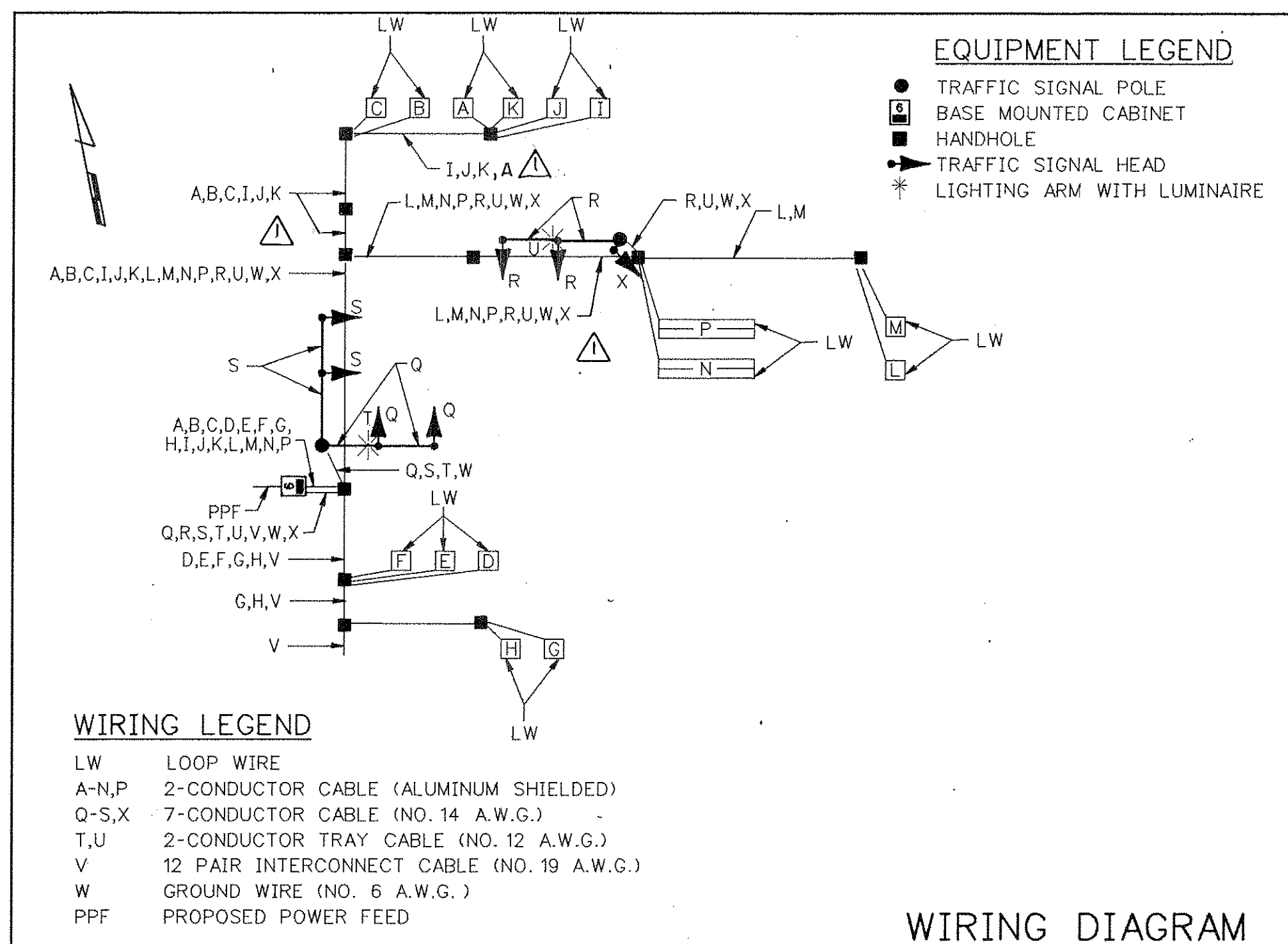
Eight phase (fully-actuated) traffic signal controller and system ready base-mounted cabinet, and eight (8) two-channel loop detector amplifiers will be installed at this intersection.

CONSTRUCTION DETAILS

- Install 27' steel pole with twin 44' and 24' mast arms with traffic signal heads and signs and 20' lighting arm and luminaire, as shown (NOTE: 2-3" PVC 90 degree angle bends).
- Install 27' steel pole with single 40' mast arm, and 20 LF lighting arm and luminaire, as shown (NOTE: 2-3" PVC 90 degree angle bends).
- Install traffic signal controller with control and distribution equipment (see drawing B-2), eight (8) two-channel loop detector amplifiers and one (1) additional detector board in base-mounted, system-ready cabinet. (NOTE: 1-2" PVC 90 degree angle (schedule 80) conduit bend and 2-4" PVC 90 degree angle conduit bends).
- Install handhole.
- Install 1" electrical conduit detector wire sleeve.
- Install 2" schedule 40 electrical conduit-trenched/buried.
- Install 2" schedule 80 electrical conduit-trenched/buried.
- Install 3" schedule 40 electrical conduit-trenched/buried.
- Install 3" schedule 80 electrical conduit-trenched/buried.
- Install 2-4" schedule 40 electrical conduit-trenched/buried.
- Install 6'x 30' loop detector, quadrupole type (2-4-2 turns).
- Install 6'x 6' advance loop detector, (3-turns).
- Install 6'x 6' sampling station loop detector, (3-turns).
- Install 24" solid white stop line.

GENERAL NOTES

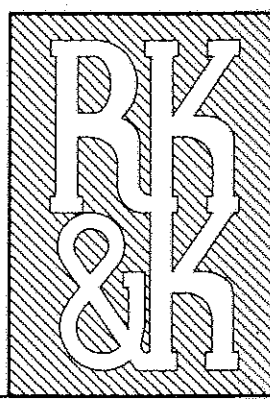
- Geometrics shall be confirmed prior to the installation of signal equipment.
- Loop detectors and conduits shall be installed prior to the installation of pavement markings.
- All utilities are shown in their approximate location and are not to be considered as complete. The Contractor shall be responsible for contacting Miss Utility to verify the location of all utilities. The Contractor shall contact The project Engineer prior to construction if there may be potential conflicts.
- Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with S.H.A. standards. All other pavement markings will be installed as part of the highway contract.
- All luminaires have to be full cut off.
- "D.O." indicates delay output loop detector.



	1	2	3	4	5	6	7
	(R)	(R)	(R)	(R)	(R)	(R)	(R)
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	(G)	(G)	(G)	(G)	(G)	(G)	(G)
PHASE 2 & 6	G	G	G	G	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R
PHASE 4	R	R	R	R	G	G	G
4 CHANGE	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R

PHASE SEQUENCE CHART

SS-11



RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS

81 MOSHER STREET
BALTIMORE, MD 21217
TEL. (410) 728-2900

REVISIONS:	APPROVALS:
ADDENDUM NO. 1 4-24-95	
	CHIEF SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER TRAFFIC
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION LOG MILE # 030157	
MD 157 (PENINSULA EXPRESSWAY) @ RAMP C GENERAL INFORMATION COUNTY: BALTIMORE	
DRAWN BY: ZAJ DES. BY: ZAJ CHK. BY: <i>Ita Rg. 3/23/95</i>	DATE: MARCH, 1995 SCALE: 1"=20'
F.A.P. NO. S.H.A. NO. KB-421-000-006	TS/STD. NO.: TS-3504GI-1
383 OF 447	